Input Set : N:\Crf3\RULE60\09813820.txt
Output Set: N:\CRF3\12172001\1813820.raw

SEQUENCE LISTING

```
(1) GENERAL INFORMATION:
             (i) APPLICANT: Hook, Magnus
      6
     7
                            Patti, Joseph M.
     8
                            House-Pompeo, Karen
     9
                            Sthanam, Narayana
                            Symersky, Jindrich
    10
            (ii) TITLE OF INVENTION: COLLAGEN BINDING PROTEIN COMPOSITIONS
    12
                                     AND METHODS OF USE
    13
    15
           (iii) NUMBER OF SEQUENCES: 8
    17
            (iv) CORRESPONDENCE ADDRESS:
    18
                  (A) ADDRESSEE: Arnold, White & Durkee
    19
                  (B) STREET: P.O. Box 4433
                                                              ENTERED
    20
                  (C) CITY: Houston
                  (D) STATE: Texas
    21
                  (E) COUNTRY: U.S.
     22
     23
                  (F) ZIP: 77210
     25
             (V) COMPUTER READABLE FORM:
                  (A) MEDIUM TYPE: Floppy disk
    26
    27
                  (B) COMPUTER: IBM PC compatible
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     28
    29
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     31
            (vi) CURRENT APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/09/813,820
C--> 32
                  (B) FILING DATE: 22-Mar-2001
C--> 33
     34
                  (C) CLASSIFICATION:
     36
           (vii) PRIOR APPLICATION DATA:
     37
                  (A) APPLICATION NUMBER: 08/856,253
     38
                  (B) FILING DATE:
     40
          (viii) ATTORNEY/AGENT INFORMATION:
     41
                  (A) NAME: Kitchell, Barbara S.
     42
                  (B) REGISTRATION NUMBER: 33,928
    43
                  (C) REFERENCE/DOCKET NUMBER: TAMK:193
     45
            (ix) TELECOMMUNICATION INFORMATION:
     46
                  (A) TELEPHONE: (512) 418-3000
     47
                  (B) TELEFAX: (512) 474-7577
        (2) INFORMATION FOR SEQ ID NO: 1:
     52
             (i) SEQUENCE CHARACTERISTICS:
     53
                  (A) LENGTH: 441 base pairs
     54
                  (B) TYPE: nucleic acid
     55
                  (C) STRANDEDNESS: single
     56
                  (D) TOPOLOGY: linear
     58
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     60 ATAACATCTG GGAATAAATC AACGAATGTT ACGGTTCATA AAAGTGAAGC GGGAACAAGT
                                                                                 60
     62 AGTGTTTTCT ATTATAAAAC GGGAGATATG CTACCAGAAG ATACGACACA TGTACGATGG
                                                                                120
     64 TTTTTAAATA TTAACAATGA AAAAAGTTAT GTATCGAAAG ATATTACTAT AAAGGATCAG
                                                                                180
     66 ATTCAAGGTG GACAGCAGTT AGATTTAAGC ACATTAAACA TTAATGTGAC AGGTACACAT
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Input Set : N:\Crf3\RULE60\09813820.txt
Output Set: N:\CRF3\12172001\I813820.raw

70 AAAATAACTG TIGATAATAC GAAGACACA ATTGATGTAA CAATTCCACA AGGCTATGGG
74 TTTGTTAATA ATTCACAAGC T 77 (2) INFORMATION FOR SEQ ID NO: 2: 79 (i) SEQUENCE CHARACTERISTICS: 80 (A) LENGTH: 159 amino acids 81 (B) TYPE: amino acid 82 (C) STRANDEDNESS: 83 (D) TOPOLOGY: linear 85 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 87 Met Arg Gly Ser His His His His His Gly Ser Ile Thr Ser Gly 88 1 5 10 15 89 Asn Lys Ser Thr Asn Val Thr Val His Lys Ser Glu Ala Gly Thr Ser 91 20 25 30 93 Ser Val Phe Tyr Tyr Lys Thr Gly Asp Met Leu Pro Glu Asp Thr Thr 94 35 40 45 96 His Val Arg Trp Phe Leu Asn Ile Asn Asn Glu Lys Ser Tyr Val Ser 97 50 55 60 99 Lys Asp Ile Thr Ile Lys Asp Gln Ile Gln Gly Gln Gln Leu Asp 100 65 70 75 80 102 Leu Ser Thr Leu Asn Ile Asn Val Thr Gly Thr His Ser Asn Tyr Tyr 103 85 90 95 105 Ser Gly Gln Ser Ala Ile Thr Asp Phe Glu Lys Ala Phe Pro Gly Ser 106 100 105 110 108 Lys Ile Thr Val Asp Asn Thr Lys Asn Thr Ile Asp Val Thr Ile Pro 109 115 120 125 111 Gln Gly Tyr Gly Ser Tyr Asn Ser Phe Ser Ile Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
77 (2) INFORMATION FOR SEQ ID NO: 2: 79
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (C) STRANDEDNESS: (D) TOPOLOGY: linear (E) (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3: (Xi) SEQUENCE CHARACTERISTICS: (XI) SEQUENCE CHARACTERISTICS
80 (A) LENGTH: 159 amino acids 81 (B) TYPE: amino acid 82 (C) STRANDEDNESS: 83 (D) TOPOLOGY: linear 85 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 87 Met Arg Gly Ser His His His His His Gly Ser Ile Thr Ser Gly 88 1 5 10 15 90 Asn Lys Ser Thr Asn Val Thr Val His Lys Ser Glu Ala Gly Thr Ser 91 20 25 30 93 Ser Val Phe Tyr Tyr Lys Thr Gly Asp Met Leu Pro Glu Asp Thr Thr 94 35 40 45 96 His Val Arg Trp Phe Leu Asn Ile Asn Asn Glu Lys Ser Tyr Val Ser 97 50 55 60 99 Lys Asp Ile Thr Ile Lys Asp Gln Ile Gln Gly Gly Gln Gln Leu Asp 100 65 70 75 80 102 Leu Ser Thr Leu Asn Ile Asn Val Thr Gly Thr His Ser Asn Tyr Tyr 103 85 90 95 105 Ser Gly Gln Ser Ala Ile Thr Asp Phe Glu Lys Ala Phe Pro Gly Ser 106 100 105 110 108 Lys Ile Thr Val Asp Asn Thr Lys Asn Thr Ile Asp Val Thr Ile Pro 109 115 120 125 111 Gln Gly Tyr Gly Ser Tyr Asn Ser Phe Ser Ile Asn Tyr Lys Thr Lys 112 130 135 140 114 Ile Thr Asn Glu Gln Gln Gly Glp Phe Val Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
81 (B) TYPE: amino acid 82 (C) STRANDEDNESS: 83 (D) TOPOLOGY: linear 85 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 87 Met Arg Gly Ser His His His His His Gly Ser Ile Thr Ser Gly 88 1 5 10 15 90 Asn Lys Ser Thr Asn Val Thr Val His Lys Ser Glu Ala Gly Thr Ser 91 20 25 30 93 Ser Val Phe Tyr Tyr Lys Thr Gly Asp Met Leu Pro Glu Asp Thr Thr 94 35 40 45 96 His Val Arg Trp Phe Leu Asn Ile Asn Asn Glu Lys Ser Tyr Val Ser 97 50 55 99 Lys Asp Ile Thr Ile Lys Asp Gln Ile Gln Gly Gly Gln Gln Leu Asp 100 65 70 75 80 102 Leu Ser Thr Leu Asn Ile Asn Val Thr Gly Thr His Ser Asn Tyr Tyr 103 85 90 95 105 Ser Gly Gln Ser Ala Ile Thr Asp Phe Glu Lys Ala Phe Pro Gly Ser 106 107 108 Lys Ile Thr Val Asp Asn Thr Lys Asn Thr Ile Asp Val Thr Ile Pro 109 115 120 125 111 Gln Gly Tyr Gly Ser Tyr Asn Ser Phe Ser Ile Asn Tyr Lys Thr Lys 112 130 135 140 114 Ile Thr Asn Glu Gln Gln Gly Glu Phe Val Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
(C) STRANDEDNESS: (D) TOPOLOGY: linear
(D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
Met Arg Gly Ser His His His His His Gly Ser Ile Thr Ser Gly ## Met Arg Gly Ser His His His His His His Gly Ser Ile Thr Ser Gly ## 1 5 10 15 ## 15 10 15 ## 15 10 15 ## 15 10 15 ## 15 10 15 ## 15 10 15 ## 16
87 Met Arg Gly Ser His His His His His His Gly Ser Ile Thr Ser Gly 88 1 5 10 15 90 Asn Lys Ser Thr Asn Val Thr Val His Lys Ser Glu Ala Gly Thr Ser 91 20 25 30 93 Ser Val Phe Tyr Tyr Lys Thr Gly Asp Met Leu Pro Glu Asp Thr Thr 94 35 40 45 96 His Val Arg Trp Phe Leu Asn Ile Asn Asn Glu Lys Ser Tyr Val Ser 97 50 55 60 99 Lys Asp Ile Thr Ile Lys Asp Gln Ile Gln Gly Gly Gln Gln Leu Asp 100 65 70 75 80 102 Leu Ser Thr Leu Asn Ile Asn Val Thr Gly Thr His Ser Asn Tyr Tyr 103 85 90 95 105 Ser Gly Gln Ser Ala Ile Thr Asp Phe Glu Lys Ala Phe Pro Gly Ser 106 100 105 110 108 Lys Ile Thr Val Asp Asn Thr Lys Asn Thr Ile Asp Val Thr Ile Pro 109 115 120 125 111 Gln Gly Tyr Gly Ser Tyr Asn Ser Phe Ser Ile Asn Tyr Lys Thr Lys 112 130 135 140 114 Ile Thr Asn Glu Gln Gln Lys Glu Phe Val Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
88
90 Asn Lys Ser Thr Asn Val Thr Val His Lys Ser Glu Ala Gly Thr Ser 91 20 25 30 93 Ser Val Phe Tyr Tyr Lys Thr Gly Asp Met Leu Pro Glu Asp Thr Thr 94 35 40 45 96 His Val Arg Trp Phe Leu Asn Ile Asn Asn Glu Lys Ser Tyr Val Ser 97 50 55 60 99 Lys Asp Ile Thr Ile Lys Asp Gln Ile Gln Gly Gly Gln Gln Leu Asp 100 65 70 75 80 102 Leu Ser Thr Leu Asn Ile Asn Val Thr Gly Thr His Ser Asn Tyr Tyr 103 85 90 95 105 Ser Gly Gln Ser Ala Ile Thr Asp Phe Glu Lys Ala Phe Pro Gly Ser 106 100 105 110 108 Lys Ile Thr Val Asp Asn Thr Lys Asn Thr Ile Asp Val Thr Ile Pro 109 115 120 125 111 Gln Gly Tyr Gly Ser Tyr Asn Ser Phe Ser Ile Asn Tyr Lys Thr Lys 112 130 135 140 114 Ile Thr Asn Glu Gln Gln Lys Glu Phe Val Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
91
93 Ser Val Phe Tyr Tyr Lys Thr Gly Asp Met Leu Pro Glu Asp Thr Thr 94 35 40 45 96 His Val Arg Trp Phe Leu Asn Ile Asn Asn Glu Lys Ser Tyr Val Ser 97 50 55 60 99 Lys Asp Ile Thr Ile Lys Asp Gln Ile Gln Gly Gly Gln Gln Leu Asp 100 65 70 75 80 102 Leu Ser Thr Leu Asn Ile Asn Val Thr Gly Thr His Ser Asn Tyr Tyr 103 85 90 95 105 Ser Gly Gln Ser Ala Ile Thr Asp Phe Glu Lys Ala Phe Pro Gly Ser 106 100 105 110 108 Lys Ile Thr Val Asp Asn Thr Lys Asn Thr Ile Asp Val Thr Ile Pro 109 115 120 125 111 Gln Gly Tyr Gly Ser Tyr Asn Ser Phe Ser Ile Asn Tyr Lys Thr Lys 112 130 135 140 114 Ile Thr Asn Glu Gln Gln Lys Glu Phe Val Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
94
96 His Val Arg Trp Phe Leu Asn Ile Asn Asn Glu Lys Ser Tyr Val Ser 97
97
100
100 65 70 70 75 80 102 Leu Ser Thr Leu Asn Ile Asn Val Thr Gly Thr His Ser Asn Tyr Tyr 103 85 90 95 105 Ser Gly Gln Ser Ala Ile Thr Asp Phe Glu Lys Ala Phe Pro Gly Ser 106 100 105 110 108 Lys Ile Thr Val Asp Asn Thr Lys Asn Thr Ile Asp Val Thr Ile Pro 109 115 120 125 111 Gln Gly Tyr Gly Ser Tyr Asn Ser Phe Ser Ile Asn Tyr Lys Thr Lys 112 130 135 140 114 Ile Thr Asn Glu Gln Gln Lys Glu Phe Val Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
Leu Ser Thr Leu Asn Ile Asn Val Thr Gly Thr His Ser Asn Tyr Tyr 103
103
Ser Gly Gln Ser Ala Ile Thr Asp Phe Glu Lys Ala Phe Pro Gly Ser 106
106
Lys Ile Thr Val Asp Asn Thr Lys Asn Thr Ile Asp Val Thr Ile Pro 109
109
Gln Gly Tyr Gly Ser Tyr Asn Ser Phe Ser Ile Asn Tyr Lys Thr Lys 112 130 135 140 114 Ile Thr Asn Glu Gln Gln Lys Glu Phe Val Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
112 130 135 140 114 Ile Thr Asn Glu Gln Gln Lys Glu Phe Val Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
114 Ile Thr Asn Glu Gln Gln Lys Glu Phe Val Asn Asn Ser Gln Ala 115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
115 145 150 155 118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
118 (2) INFORMATION FOR SEQ ID NO: 3: 120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
120 (i) SEQUENCE CHARACTERISTICS: 121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
121 (A) LENGTH: 849 base pairs 122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
122 (B) TYPE: nucleic acid 123 (C) STRANDEDNESS: single
123 (C) STRANDEDNESS: single
·
126 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
128 GACGATAAAA ATGGAAAAAT ACAAAATGGT GACATGATTA AAGTGGCATG GCCGACAAGC 60
130 GGTACAGTAA AGATAGAGGG TTATAGTAAA ACAGTACCAT TAACTGTTAA AGGTGAACAG 120
132 GTGGGTCAAG CAGTTATTAC ACCAGACGGT GCAACAATTA CATTCAATGA TAAAGTAGAA 180
134 AAATTAAGTG ATGTTTCGGG ATTTGCAGAA TTTGAAGTAC AAGGAAGAAA TTTAACGCAA 240
136 ACAAATACTT CAGATGACAA AGTAGCTACG ATAACATCTG GGAATAAATC AACGAATGTT 300
136 ACAAATACTT CAGATGACAA AGTAGCTACG ATAACATCTG GGAATAAATC AACGAATGTT 300 138 ACGGTTCATA AAAGTGAAGC GGGAACAAGT AGTGTTTTCT ATTATAAAAC GGGAGATATG 360
138 ACGGTTCATA AAAGTGAAGC GGGAACAAGT AGTGTTTTCT ATTATAAAAC GGGAGATATG 360
138 ACGGTTCATA AAAGTGAAGC GGGAACAAGT AGTGTTTTCT ATTATAAAAC GGGAGATATG 360 140 CTACCAGAAG ATACGACACA TGTACGATGG TTTTTAAATA TTAACAATGA AAAAAGTTAT 420 142 GTATCGAAAG ATATTACTAT AAAGGATCAG ATTCAAGGTG GACAGCAGTT AGATTTAAGC 480 144 ACATTAAACA TTAATGTGAC AGGTACACAT AGCAATTATT ATAGTGGACA AAGTGCAATT 540
138 ACGGTTCATA AAAGTGAAGC GGGAACAAGT AGTGTTTTCT ATTATAAAAC GGGAGATATG360140 CTACCAGAAG ATACGACACA TGTACGATGG TTTTTAAATA TTAACAATGA AAAAAGTTAT420142 GTATCGAAAG ATATTACTAT AAAGGATCAG ATTCAAGGTG GACAGCAGTT AGATTTAAGC480

Input Set : N:\Crf3\RULE60\09813820.txt
Output Set: N:\CRF3\12172001\I813820.raw

150	ACCAAAATTA CGAATGAACA GCAAAAAGAG TTTGTTAATA ATTCACAAGC TTGGTATCAA													720			
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154																840	
156	GATACCAA	3															849
159	(2) INFO																
161	(i)	SEQ	JENCI	E CH	ARAC!	reri:	STIC	S:									
162		(A) LE	NGTH	: 21	1 am:	ino a	acid	S								
163		(B	TY!	PE _. : a	amino	o ac	id										
164	-	(C) STI	RANDI	EDNES	SS:											
165		(D) TOI	POLO	GY: :	linea	ar										
167	(xi)																
169	Met	Arg	Gly	Ser	His	His	His	His	His	His	Gly	Ser	Asp	Asp	Lys	Val	
170	1				5					10					15		
172	Ala	Thr	Ile	Thr	Ser	Gly	Asn	Lys	Ser	Thr	Asn	Val	Thr	Val	His	Lys	
173				20					25					30			
175	Ser	Glu	Ala	Gly	Thr	Ser	Ser	Val	Phe	Tyr	Tyr	Lys	Thr	Gly	Asp	Met	
176			35					40					45				
178	Leu		Glu	Asp	Thr	Thr		Val	Arg	\mathtt{Trp}	Phe	Leu	Asn	Ile	Asn	Asn	
179		50					55					60					
181		Lys	Ser	Tyr	Val	Ser	Lys	Asp	Ile	Thr	Ile	Lys	Asp	Gln	Ile	Gln	
182	65					70					75					80	
184	Gly	Gly	Gln	Gln	Leu	Asp	Leu	Ser	Thr	Leu	Asn	Ile	Asn	Val		Gly	
185					85					90					95		
187	Thr	His	Ser	Asn	Tyr	Tyr	Ser	Gly	Gln	Ser	Ala	Ile	Thr	Asp	Phe	Gľu	•
188				100					105					110			
190	Lys	Ala	Phe	Pro	Gly	Ser	Lys	Ile	Thr	Val	Asp	Asn	Thr	Lys	Asn	Thr	
191			115		7			120					125				
193	Ile	Asp	Val	Thr	Ile	Pro	Gln	Gly	Tyr	Gly	Ser	Tyr	Asn	Ser	Phe	Ser	
194		130					135					140					
196	Ile	Asn	${ t Tyr}$	Lys	Thr	Lys	Ile	Thr	Asn	Glu	Gln	Gln	Lys	Glu	Phe	Val	
197	145					150					155					160	
199	Asn	Asn	Ser	Gln		Trp	Tyr	Gln	Glu		Gly	Lys	Glu	Glu	Val	Asn	
200					165					170			•		175		
202	Gly	Lys	Ser		Asn	His	Thr	Val		Asn	Ile	Asn	Ala	Asn	Ala	Gly	
203				180					185					190			
205	Ile	Glu		Thr	Val	Lys	Gly		Leu	Lys	Val	Leu	Lys	Gln	Asp	Lys	
206			195					200					205				
208	Asp	Thr	Lys														
209		210	•														
	(2) INFO																
214						reri:											
215						00 ba		pair	5								
216						eic a											
217		-				SS: \$	_	Le									
218		-				linea			_	_							
220																	
	GCACGAGA!																60
	GATGGTGG																120
226	GGTGACATO	JA T	L'AAA(GTGG(CATO	GCC	SACA	AGC	GTA(CAG !	raaa(ATA	GA GO	GTT	ATAG:	r	180

Input Set : N:\Crf3\RULE60\09813820.txt
Output Set: N:\CRF3\12172001\I813820.raw

228	AAAACAGTA	C CI	ATTA	ACTG	TAT 1	AAGG!	IGAA	CAG	STGG	GTC A	AAGC	AGTT	T TA	ACAC	CAGA	2	240
230	GGTGCAACA	A T	raca:	TTCA!	A TG	ATAA	AGTA	GAA	AAAT:	raa (GTGA:	rgtt:	rc G	GGAT!	TTGC?	A	300
232	GAATTTGAA	G T	ACAAC	GGAAC	AAA	ATTTA	AACG	CAA	ACAA	ATA (CTTC	AGAT	SA CA	AAAG	TAGC'	r	360
234	ACGATAACA	T C	rggg <i>i</i>	ATA	ATC	CAAC	GAAT	GTT	ACGG!	TTC A	ATAA	AAGT	SA AC	GCGG	GAAC	A	420
236	AGTAGTGTT	T T	CTAT	IATA?	AA	CGGG	AGAT	ATG	CTAC	CAG	AAGA!	racg <i>i</i>	AC AC	CATG	racg?	A	480
238	TGGTTTTTA	A A	TATT	AACA	A TG	AAAA	AAGT	TAT	GTAT	CGA I	AAGA!	TTAT	AC TA	ATAA	AGGA!	r	540
240	CAGATTCAA	G G	rgga(CAGC	A GT	raga:	PTTA	AGC	ACAT:	raa .	ACAT:	TAAT	GT GA	ACAG	GTAC	A	600
242	CATAGCAAT	'A T	TAT	AGTGG	AC	AAAG!	IGCA	ATT	ACTG	ATT '	TTGA	AAAA	SC C	TTTC	CAGG!	Г	660
	TCTAAAATA																720
246	GGGTCATAI	'A A'	ragt:	TTTT	AA:	PTAA(CTAC	AAA	ACCA	AAA '	TTAC	SAAT	SA AC	CAGC	AAAA	A	780
	GAGTTTGTT																840
250	AAATCATTI	'A A'	rcat <i>i</i>	ACTGT	r GC	ACAA!	TTAT	AAT	GCTA!	ATG (CCGG!	TTA1	SA AC	GTA	CTGT	A	900
252	AAAGGTGAA	T T	AAAA	STTTI	L AA	AACA	GGAT	AAA	GATA(CCA I	AGGC:	CCT	AT AC	GCTA	ATGT	ł.	960
254	AAATTTAAA	C T	PTCT	AAAA	A AG	ATGG	ATCA	GTT	STAAA	AGG A	ACAA!	CAA	AA A	GAAA'	TTGA(3	1020
256	ATTATAACA	G A	rgca <i>i</i>	AACGC	TA	rtgc:	TAAT	ATT	AAAG	CGT '	TGCC:	PAGT(GG A	GACT	TATA	ľ	1080
258	TTAAAAGAA	A TA	AGAGO	GCGCC	ACC	GACC	STAT	ACA:	rttg <i>i</i>	ATA A	AGGA!	PAAA'	SA A	PATC	CGTT	ľ	1140
260	ACTATGAAA	G A	raca(SATA	A TC	AGGG	TAT	TTT	ACGA	CTA '	TTGA?	\AAT(GC A	AAAG	CGAT	Į.	1200
	GAAAAAACA			_													1260
	ACGATTTAT																1320
266	GCAGAGATI	'A A	'AAA	[TAG	A AG	ATGG	AACG	ACA	AAAG!	rga (CATG	STCT	T AA	CTTC	CGGA	Ą	1380
268	AATGACAAA	A A	rggc <i>i</i>	AAGG	TA!	KAATI	TAT	TTAC	GTTA?	AAG	AAGT	TAAA	C TO	CAAG	GTGA <i>l</i>	Ą	1440
270	GATACAACA	C C	AGAAC	GATA	A TAC	CTAA	AAAA	GAA	AATG	GTT '	TAGT	GTT	AC TA	ATA	CTGA	Ą	1500
273	273 (2) INFORMATION FOR SEQ ID NO: 6:																
275	(i)			E CHA													
276	•	(A)	,	NGTH:				acids	5								
277																	
278	•	٠.	<i>'</i>														
279				POLOG													
281	(xi)										_		_				
283		Arg	Gly	Ser		His	His	His	His		Gly	Ser	Ala	Arg	-	Ile	
284	1			_	5				_	10					15		
286	Ser	Ser	Thr		Val	Thr	Asp	Leu		Val	Ser	Pro	Ser		Ile	Glu	
287		_	_	20	_		_		25		_			30		_	
289	Asp	Gly		Lys	Thr	Thr	Val	_	Met	Thr	Phe	Asp		Lys	Asn	Gly	
290	_		35					40			_		45			_	
292	Lys		Gln	Asn	Gly	Asp		Ile	Lys	Val	Ala	_	Pro	Thr	Ser	Gly	
293		50		_	_	_	55			_	_	60			_		
295		Val	Lys	Ile	Glu	_	Tyr	Ser	Lys	Thr	Val	Pro	Leu	Thr	Val	_	
296	65	_	_	_	_	70	_	_	_		75		_			80	
298	Gly	Glu	Gln	Val		Gln	Ala	Val	Ile		Pro	Asp	Gly	Ala		Ile	
299					85					90					95		
301	Thr	Phe	Asn		Lys	Val	Glu	Lys		Ser	Asp	Val	Ser	_	Phe	Ala	
302				100					105					110			
304	Glu	Phe		Val	Gln	Gly	Arg		Leu	Thr	Gln	Thr		Thr	Ser	Asp	
305			115		_	_		120					125				
307	Asp	_	Val	Ala	Thr	Ile		Ser	Gly	Asn	Lys		Thr	Asn	Val	Thr	
308		130	_	_			135		_	_		140		_			
310		His	Lys	Ser	Glu		Gly	Thr	Ser	Ser	Val	Phe	Tyr	Tyr	Lys		
311	145					150					155					160	

Input Set : N:\Crf3\RULE60\09813820.txt
Output Set: N:\CRF3\12172001\1813820.raw

313 314		Gly	Asp	Met	Leu	Pro 165	Glu	Asp	Thr	Thr	His 170	Val	Arg	Trp	Phe	Leu 175	Asn
316		Ile	Asn	Asn			Ser	Tyr	Val			Asp	Ile	Thr			Asp
317 319		Gln	Ile	Gln	180 Gly	Gly	Gln	Gln		185 Asp	Leu	Ser	Thr		190 Asn	Ile	Asn
320 322		Val	Thr	195 Gly	Thr	His	Ser	Asn	200 Tvr	Tvr	Ser	Glv	Gln	205 Ser	Ala	Ile	Thr
323			210	_				215	_	_		_	220				
325 326		Asp 225	Phe	Glu	Lys	Ala	Phe 230	Pro	Gly	Ser	Lys	Ile 235	Thr	Val	Asp	Asn	Thr 240
328			Asn	Thr	Ile	Asp		Thr	Ile	Pro	Gln		Tyr	Gly	Ser	Tyr	
329						245				•	250					255	
331 332		Ser	Phe	Ser	Ile 260	Asn	Tyr	Lys	Thr	Lys 265	Ile	Thr	Asn	Glu	Gln 270	Gln	Lys
334		Glu	Phe	Val		Asn	Ser	Gln	Ala		Tvr	Gln	Glu	His		Lys	Glu
335				275					280	-	-			285	_	•	
337		Glu	Val	Asn	Gly	Lys	Ser		Asn	His	Thr	Val	His	Asn	Ile	Asn.	Ala
338			290	_	_	_	_	295					300				
340			Ala	Gly	Ile	Glu	_	Thr	Val	Lys	Gly		Leu	Lys	Val	Leu	_
341		305	1	T	A	mh	310	31.	Dwo	т1 -	7.1.	315	17a 1	T	Dho	T	320
343 344		GIN	Asp	Lys	Asp	325	ьys	АІА	PIO	ire	330	ASII	Val	гуу	Pne	цуs 335	ьeu
346		Ser	Lvs	Lys	Asp		Ser	Val	Val	T.vs		Asn	Gln	Lvs	Glu		Glii
347		001		-1-	340	0-1	551	, 42		345				-1-	350		
349		Ile	Ile	Thr	Asp	Ala	Asn	Gly	Ile	Ala	Asn	Ile	Lys	Ala	Leu	Pro	Ser
350				355		•			360					365			
352		Gly	-	Tyr	Ile	Leu	Lys		Ile	Glu	Ala	Pro	_	Pro	Tyr	Thr	Phe
353		_	370	_	_		_	375	_,			_	380		_		
355 356		385	Lys	Asp	гĀЗ	GIU	Tyr 390	Pro	Pne	Thr	мет	ьуs 395	Asp	Thr	Asp	Asn	400
358			ጥህዮ	Phe	Фbr	Thr		Glu	Δsn	Δla	T.ve		Tle	Glu	T.vs	Thr	
359		017	-1-	1110	****	405	110	Olu	71517	niu	410	1114		Olu	1 ,5	415	1170
361		Asp	Val	Ser	Ala		Lys	Val	Trp	Glu		Thr	Gln	Lys	Val		Pro
362					420		•		_	425	_			-	430		
364		Thr	Ile	Tyr	Phe	Lys	Leu	${\tt Tyr}$	Lys	Gln	Asp	Asp	Asn	Gln	Asn	Thr	Thr
365				435					440					445			_
367		Pro		Asp	·Lys	Ala	Glu		Lys	Lys	Leu	Glu	_	Gly	Thr	Thr	Lys
368		Wo l	450	Пъъ	Com	7 ~ ~	T 0	455	c1	1 a n	7 an	T ***	460	C1	T *** 0	21-	T1.0
370 371		465	1111	Trp	ser	ASII	470	PIO	GIU	ASII	ASP	475	ASII	GLY	гур	AIA	480
373			Tur	Leu	Val	T.vc		Val	Δsn	Δla	Gln		Glu	Δsn	Thr	ሞከተ	
374		275	-1-	Leu	· u ·	485	014	vul	11011		490.	011	Olu	пор		495	
376		Glu	Gly	Tyr	Thr		Lys	Glu	Asn	Gly		Val	Val	Thr	Asn		Glu
377			-	-	500	-	-			505					510		
380	(2)	INFO	RMAT	ION I	FOR S	SEQ :	ID NO) : 7	:			*					
382		(i)	SEQ	JENC	E CHA	ARAC!	reri:	STICS	5:								
383			•) LEI					acids	3							
384				TYI				id									
385			(C) STI	RANDI	EDNES	ss:										

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/813,820

DATE: 12/17/2001 TIME: 10:19:17

Input Set : N:\Crf3\RULE60\09813820.txt
Output Set: N:\CRF3\12172001\I813820.raw

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]